BIBLIOGRAPHY OF DOCTORAL DISSERTATIONS 1981-82

NATURAL & APPLIED SCIENCES

ASSOCIATION OF INDIAN UNIVERSITIES
NEW DELHI
1986

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NEW DELHI, 1986

Price : Rs. 225.00

Published by Association of Indian Universities,
AIU House, 16 Kotla Marg, New Delhi 110 002.

Printed at Geeta Press, C-7, Bhajanpura, Delhi 110 053.

PREFACE

This Bibliograpy of Doctoral Dissertations records 3,488 theses accepted for award of Doctoral Degrees in Natural and Applied Sciences during July 1981 to June 1982. Together with the 2,429 theses listed in its companion volume dealing with Social Sciences and the Humanities issued earlier, the Bibliography presents a complete catalogue of researches completed for Doctoral Degrees of Indian Universities during 1981-82.

JAGDISH NARAIN
Secretary
Association of Indian Universities

AIU House
16 Kotla Marg
New Delhi 110 002
March 31, 1986

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CONSPECTUS

This bibliography lists 3,488 theses accepted during the year 1981-82 by the Indian universities for doctoral degrees in the subjects of Natural and Applied Sciences. These have been classified by the *Dewey Decimal Classification (19th Edition)* and this governs their general arrangement.

Each entry lists detailed particulars about the theses in the following order : Serial number, name of the scholar, title of the thesis, name of the Department/Institute/Laboratory where the research was conducted, if other than the name of the department under which the entry has been listed, name of the University/Institute, the years when research was begun and completed, availability note, and name and complete address of the guide. Unless otherwise stated immediately after the title, the theses have been accepted for the award of Ph.D. degree.

Abbreviations have been used to render the names of the various universities/institutes and a complete list of these abbreviations and their expansions follows the Alphabetic Subject Index *For theses where the information about the year when the research* was begun was not available, only the year of award of degree has been given. Availability note provides information about the availability of the theses for consultation and use by the research scholars. Unless indicated by an asterisk to the serial number a copy of each of the thesis listed is available in the respective university/institute library. The thesis is available in the university/institute office when the serial number is marked by an asterisk. As regard the guides under whom research has been conducted, information has been provided in the majority of the cases. However, where complete adderss was not available we had to be content with the name of the guide only. There are however, a few cases where even the name could not be ascertained.

An alphabetic subject index and a scholar index are included to facilitate reference. The scholar index is arranged alphabetically according to the surnames of the scholars. But an important departure from strict alphabetization consists in grouping the surnames pronounced alike. For instance, Misra and Mishra are grouped together and these are arranged in the alphabetical order of their initials. The index directs the user to the text with the help of the running serial number of the entries.

The following statistical table gives the university and subject-wise distribution of the theses accepted in the year 1981-82.

University and subject-wise distribution of Doctoral Dissertations in Natural and Applied Sciences during 1980-81

University/Institute	*Agriculture*	*Animal Husbandry*	*Anthropology*	*Astronomy*	*Biology*	*Botany*	*Buildings*	*Chemistry*	*Earth Sciences*	*Engineering*	*Mathematics*	*Medical Sciences*	*Paleontology*	*Physics*	*Technology*	*Zoology*	**Total**
Agra	18	6	—	1	4	12	—	25	2	1	4	2	—	5	—	10	90
Aligarh	8	—	—	—	5	5	—	21	3	3	7	1	—	2	—	19	74
Allahabad	6	—	—	—	2	2	—	26	2	2	3	—	—	1	—	7	51
A.I.I.M.S., Delhi	—	—	—	—	—	—	—	—	—	—	—	12	—	—	—	—	12
Andhra	4	—	6	1	1	5	—	7	16	2	6	3	—	9	—	14	74
A.P. Agrl.	8	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16
Annamalai	—	—	—	—	5	—	—	3	—	—	2	—	—	4	1	9	24

(*Contd.*)

University and subject-wise distribution of Doctoral Dissertations in Natural and Applied Sciences during 1980-81 (*Contd.*)

University/Institute	*Agriculture*	*Animal Husbandry*	*Anthropology*	*Astronomy*	*Biology*	*Botany*	*Buildings*	*Chemistry*	*Earth Sciences*	*Engineering*	*Mathematics*	*Medical Sciences*	*Paleontology*	*Physics*	*Technology*	*Zoology*	**Total**
Avadh	3	—	—	—	—	3	—	4	—	—	—	1	—	—	—	—	11
Awadhesh Pratap	—	—	—	1	1	1	—	7	2	—	1	—	—	1	—	2	16
Banaras	6	—	—	—	3	6	—	5	—	—	6	5	—	2	3	4	40
Bangalore	—	—	—	—	—	3	—	4	—	2	2	1	4	1	—	8	25
Baroda	1	1	—	—	2	7	—	8	2	2	—	1	—	1	—	2	27
Berhampur	2	—	—	—	1	3	—	5	—	—	1	—	—	2	—	4	18
Bhavnagar	—	—	—	—	—	—	—	5	—	—	4	3	—	—	—	1	13

Bhopal	2	—	—	—	—	2	—	4	—	2	3	--	—	2	—	5	26
Bidhan Chandra Krishi	26	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	34
Bihar	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	1	3
B.I.T.S. Pilani	—	—	—	—	—	—	—	1	—	3	—	1	—	—	1	1	7
Birsa Agrl.	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1
Bombay	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1
Bundelkhand	—	—	—	—	—	—	—	4	—	—	1	—	—	—	—	—	5
Burdwan	—	—	—	—	3	5	—	4	—	3	1	—	1	1	—	15	33
Calcutta	13	3	4	—	37	31	—	41	4	6	12	33	—	22	1	24	231
Calicut	—	—	—	—	—	1	—	1	—	—	1	—	—	—	—	1	4
C.S. Azad	47	2	—	—	—	—	—	—	—	—	—	1	—	—	—	—	50
Cochin	—	—	—	—	2	—	—	1	—	1	—	—	—	5	—	1	10
Delhi	1	—	8	—	—	13	—	41	2	1	22	4	—	15	2	7	116
Devi Ahilya	1	—	—	—	2	6	—	3	1	2	—	—	—	2	—	3	20

(*Contd.*)

University and subject-wise distribution of Doctoral Dissertations in Natural and Applied Sciences during 1980-81 (*Contd.*)

University/Institute	*Agriculture*	*Animal Husbandry*	*Anthropology*	*Astronomy*	*Biology*	*Botany*	*Buildings*	*Chemistry*	*Earth Sciences*	*Engineering*	*Mathematics*	*Medical Sciences*	*Paleontology*	*Physics*	*Technology*	*Zoology*	**Total**
Dibrugarh	—	—	—	—	—	—	—	2	1	—	3	—	—	2	—	—	8
Garhwal	2	—	—	—	—	12	—	8	—	—	3	—	—	1	—	4	30
Gauhati	4	—	2	—	1	3	—	4	2	—	1	—	—	3	—	2	22
Gorakhpur	3	—	—	2	1	12	—	15	—	—	3	—	—	7	2	12	57
Gujarat	4	—	—	1	1	6	—	13	2	2	6	2	—	5	2	6	50
Gujarat Agrl.	2	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3
Gulbarga	—	—	—	—	1	—	—	1	—	—	—	—	—	—	1	1	4

Guru Nanak Dev	1	1	—	—	1	—	—	7	—	—	—	1	—	—	—	1	12
Haryana Agrl.	31	20	—	—	1	1	—	—	—	—	2	—	—	—	—	—	55
Himachal Pradesh	1	—	—	—	1	4	—	3	—	—	1	—	—	—	—	1	11
H.P. Krishi	17	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19
H.S. Gour	3	—	—	—	1	6	—	9	1	—	—	1	—	2	—	2	25
Hyderabad	—	—	—	—	—	—	—	1	—	—	—	—	—	1	—	1	3
I.A.R.I., Delhi	58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	58
I.I.Sc., Bangalore	1	1	—	—	20	2	—	31	—	28	4	—	—	10	9	—	106
I.I.T., Bombay	—	—	—	—	1	—	—	13	5	41	10	—	—	8	13	—	91
I.I.T., Delhi	1	—	—	—	1	—	—	16	1	33	4	1	—	7	7	—	71
I.I.T., Kharagpur	10	—	—	1	—	—	—	13	7	16	12	—	—	3	4	—	66
I.I.T., Madras	—	—	—	—	—	—	1	16	—	33	7	—	—	4	4	—	65
I.S.I., Calcutta	—	—	—	—	—	—	—	—	—	—	17	—	—	—	—	—	17
I.S.M., Dhanbad	—	—	—	—	1	—	—	4	7	5	—	—	—	2	—	—	19

(*Contd.*)

University and Subject-wise distribution of Doctoral Dissertations in Natural andApplied Sciences during 1980-81 (*Contd.*)

University/Institute	*Agriculture*	*Animal Husbandry*	*Anthropology*	*Astronomy*	*Biology*	*Botany*	*Buildings*	*Chemistry*	*Earth Sciences*	*Engineering*	*Mathematics*	*Medical Sciences*	*Paleontology*	*Physics*	*Techology*	*Zoology*	**Total**
Jadavpur	—	—	—	—	1	—	—	18	4	8	5	3	—	6	2	—	47
Jammu	—	—	—	—	—	4	—	8	3	—	—	—	—	—	—	—	15
J.N. Krishi	4	4	—	—	—	—	—	—	—	—	—	1	—	—	—	—	9
J.N. Tech.	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	2
JNU	1	—	—	—	5	—	—	1	—	—	—	1	—	1	—	1	10
Jiwaji	8	—	—	—	1	5	—	14	—	1	—	—	—	—	—	5	34
Jodhpur	—	—	—	—	7	6	—	15	1	—	3	—	—	—	—	4	36

Kakatiya	3	—	—	—	—	5	—	2	—	2	5	1	—	—	2	2	22
Kalyani	—	—	—	—	2	4	—	1	—	1	3	—	—	1	—	6	18
Kanpur	10	—	—	—	1	6	—	8	—	1	1	10	—	1	1	15	54
Karnatak	—	—	—	—	—	3	—	11	—	—	4	—	—	3	—	6	27
Kashmir	—	—	—	—	—	2	—	—	1	—	—	—	—	3	—	3	9
Kerala	—	—	—	—	3	1	—	6	—	1	3	2	—	1	1	6	24
Kerala Agrl.	3	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4
Konkan Krishi	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2
Krishnadevaraya	1	—	—	—	—	—	—	3	—	—	1	—	—	—	—	—	5
Kumaun	1	—	—	3	1	6	—	3	2	—	2	—	—	2	—	3	23
Kurukshetra	6	12	—	—	—	4	—	12	—	1	2	1	—	5	—	2	45
Madras	3	1	—	—	9	9	—	23	5	7	18	27	—	6	4	15	127
Madurai	2	—	—	—	4	4	—	3	—	—	1	—	—	2	—	6	22
Magadh	—	—	—	—	—	—	—	1	—	1	7	—	—	2	—	3	14

(*Contd.*)

University and subject-wise distribution of Doctoral Dissertations in Natural and Applied Sciences during 1980-81 *(Contd.)*

University/Institute	*Agriculture*	*Animal Husbandry*	*Anthropology*	*Astronomy*	*Biology*	*Botany*	*Buildings*	*Chemistry*	*Earth Sciences*	*Engineering*	*Mathematics*	*Medical Sciences*	*Paleontology*	*Physics*	*Technology*	*Zoology*	**Total**
Maharshi Dayanand	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1
Mahatma Phule	7	1	—	—	—	1	—	—	—	—	—	—	—	—	—	—	9
Mangalore	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
Marathwada	4	—	—	1	3	3	—	11	—	—	1	—	—	1	—	17	41
Marathwada Agrl.	8	3	—	—	—	1	—	—	—	—	—	—	—	—	—	—	12
Meerut	4	—	—	—	1	11	—	21	1	1	12	—	—	4	1	16	72
Mysore	4	—	—	—	1	9	—	9	1	1	—	1	—	4	8	6	44

Nagarjuna	—	—	—	—	—	3	—	—	—	—	1	—	—	—	1	5	10
Nagpur	2	—	—	—	2	6	—	14	3	3	4	6	—	3	1	12	56
North Bengal	1	—	—	—	—	—	—	6	—	—	—	—	—	4	—	2	13
North Eastern	1	—	—	—	2	10	—	—	—	—	—	—	—	—	—	4	17
Orissa Agrl.	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2
Osmania	3	—	1	2	1	6	—	16	3	—	—	5	1	3	1	6	48
Panjab	1	4	1	—	1	8	—	12	5	2	4	1	—	4	1	5	49
Pant	12	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	15
Patel	1	1	—	—	2	12	—	19	—	—	1	—	—	—	—	—	36
Patna	1	—	—	—	1	12	—	17	5	1	14	—	—	4	—	15	70
Poona	2	—	1	—	4	17	—	46	11	2	4	1	1	10	1	5	105
P.G.I., Chandigarh	—	—	—	—	—	—	—	—	—	—	—	18	—	—	—	—	18
Punjab Agrl.	29	16	—	—	2	3	—	4	—	—	2	—	—	—	2	3	71
Punjabi	—	—	—	—	2	3	—	2	—	—	1	1	—	6	—	1	16

(Contd.)

University and subject-wise distribution of Doctoral Dissertations in Natural and Applied Sciences during 1980-81 (*Contd.*)

University/Institute	*Agriculture*	*Animal Husbandry*	*Anthropology*	*Astronomy*	*Biology*	*Botany*	*Buildings*	*Chemistry*	*Earth Sciences*	*Engineering*	*Mathematics*	*Medical Sciences*	*Paleontology*	*Physics*	*Technology*	*Zoology*	**Total**
Punjabrao Krishi	2	3	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5
Rajasthan	2	–	–	–	2	10	–	24	5	1	3	7	–	1	–	7	62
Rajendra Agrl.	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1
Rani Durgavati	4	–	–	–	–	4	–	5	–	1	5	2	–	1	1	2	25
Ravishankar	–	–	–	–	1	1	–	3	–	–	–	–	–	2	1	–	8
Roorkee	–	–	–	–	–	–	1	5	1	15	4	–	–	2	2	–	30
Sambalpur	–	–	–	–	–	1	–	5	–	2	3	–	–	1	–	1	13

Saurashtra	1	—	—	—	—	1	—	6	—	—	—	—	—	—	—	1	9
Shivaji	—	—	—	—	—	4	—	8	—	1	4	1	—	2	—	10	30
S.N.D.T., Bombay	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	1
South Gujarat	—	—	—	—	—	1	—	1	—	1	3	1	—	1	—	3	11
Sukhadia	17	1	—	—	—	7	—	4	1	—	1	—	—	2	—	6	39
Tamil Nadu Agrl.	30	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	31
U.A.S., Bangalore	31	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	33
Utkal	9	—	1	—	—	4	—	14	1	—	5	—	—	2	—	4	40
Venkateswara	—	—	3	—	1	2	—	7	2	—	2	—	—	5	1	12	35
Vikram	6	—	—	—	1	4	—	8	1	—	1	2	—	5	—	6	34
Visva Bharati	2	—	—	—	1	—	—	2	—	—	—	—	—	—	1	2	8
Total	522	106	27	13	164	356	2	776	116	244	280	166	7	230	82	397	3488

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ABBREVIATIONS

UNIVERSITIES/INSTITUTES

A.I.I.M.S., Delhi	All India Institute of Medical Sciences, Delhi
A.P. Agrl.	Andhra Pradesh Agricultural University
Agra	Agra University
Aligarh	Aligarh Muslim University
Andhra	Andhra University
Annamalai	Annamalai University
Assam Agrl.	Assam Agricultural University
Avadh	Avadh University
Awadhesh Pratap	Awadhesh Pratap Singh University
Banaras	Banaras Hindu University
Bangalore	Bangalore University
Baroda	Maharaja Sayajirao University of Baroda
Berhampur	Berhampur University
Bhagalpur	Bhagalpur University
Bhavnagar	Bhavnagar University
Bhopal	Bhopal Vishwavidyalaya
Bidhan Chandra Krishi	Bidhan Chandra Krishi Viswa Vidyalaya
Bihar	University of Bihar
Bombay	University of Bombay
Bundelkhand	Bundelkhand University
Burdwan	University of Burdwan
C.S. Azad	Chandra Shekhar Azad University of Agriculture and Technology
Calcutta	University of Calcutta

Calicut	University of Calicut
Cochin	University of Cochin
Delhi	University of Delhi
Dibrugarh	Dibrugarh University
Garhwal	Garhwal University
Gauhati	Gauhati University
Gorakhpur	University of Gorakhpur
Gujarat	Gujarat University
Gujarat Agrl.	Gujarat Agricultural University
Guru Nanak	Guru Nanak Dev University
H.P. Agrl.	Himachal Pradesh Krishi Vishwa Vidyalaya
H.S. Gour	Dr. Hari Singh Gour Vishwavidyalaya
Haryana Agrl.	Haryana Agricultural University
Himachal Pradesh	Himachal Pradesh University
Hyderabad	University of Hyderabad
I.A.R.I., Delhi	Indian Agricultural Research Institute, Delhi
I.I.Sc., Bangalore	Indian Institute of Science, Bangalore
I.I.T., Bombay	Indian Institute of Technology, Bombay
I.I.T., Delhi	Indian Institute of Technology, Delhi
I.I.T., Kanpur	Indian Institute of Technology, Kanpur
I.I.T., Kharagpur	Indian Institute of Technology, Kharagpur
I.I.T., Madras	Indian Institute of Technology, Madras
I.S.I., Calcutta	Indian Statistical Institute, Calcutta
I.S.M., Dhanbad	Indian School of Mines, Dhanbad
Devi Ahilya	Devi Ahilya Vishwavidyalaya
J.N. Krishi	Jawaharlal Nehru Krishi Vishwa Vidyalaya
J.N. Tech.	Jawaharlal Nehru Technological University
Rani Durgavati	Rani Durgavati Vishwavidyalaya
Jadavpur	Jadavpur University

Jammu	University of Jammu
Jawaharlal Nehru	Jawaharlal Nehru University
Jiwaji	Jiwaji University
Jodhpur	University of Jodhpur
K.S. Darbhanga	K.S. Darbhanga Sanskrit University
Kakatiya	Kakatiya University
Kalyani	University of Kalyani
Kanpur	Kanpur University
Karnatak	Karnatak University
Kashmir	University of Kashmir
Kerala	University of Kerala
Kerala Agrl.	Kerala Agricultural University
Konkan Krishi	Konkan Krishi Vidyapeeth
Kumaun	Kumaun University
Kurukshetra	Kurukshetra University
Mahatma Phule Krishi	Mahatma Phule Krishi Vidyapeeth
Madras	University of Madras
Madurai	Madurai Kamaraj University
Magadh	Magadh University
Maharshi Dayanand	Maharshi Dayanand University
Marathwada	Marathwada University
Marathwada Krishi	Marathwada Krishi Vidyapeeth
Meerut	Meerut University
Mysore	University of Mysore
Nagarjuna	Nagarjuna University
Nagpur	Nagpur University
North Bengal	University of North Bengal
North Eastern Hill	North-Eastern Hill University
Osmania	Osmania University
Orissa Agrl.	Orissa University of Agriculture and Technology
P.G.I., Chandigarh	Postgraduate Institute of Medical Education and Research, Chandigarh
Panjab	Panjab University
Pant	Govind Ballabh Pant University of Agriculture and Technology

Patel	Sardar Patel University
Poona	University of Poona
Punjab Agrl.	Punjab Agricultural University
Punjabi	Punjabi University
Punjabrao Krishi	Punjabrao Krishi Vidyapeeth
Rajasthan	University of Rajasthan
Ravishankar	Ravishankar University
Rohilkhand	Rohilkhand University
Roorkee	University of Roorkee
Sambalpur	Sambalpur University
Saurashtra	Saurashtra University
Shivaji	Shivaji University
South Gujarat	South Gujarat University
Tamil Nadu Agrl.	Tamil Nadu Agricultural University
Sukhadia	Sukhadia University
University of Agrl. Sc., Bangalore	University of Agricultural Sciences, Bangalore
Utkal	Utkal University
Venkateswara	Sri Venkateswara University
Vikram	Vikram University

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